

CLAIMS:

What is claimed is:

- 1 1. A data processing system implemented method for accomplishing an enterprise
2 event based on a unified collection of information realized from a plurality of disparate,
3 ancillary systems comprising:
4 catching a message, wherein the message was generated by a disparate, ancillary
5 system using a set of content rules and the message conforms to a message standard;
6 opening the message;
7 identifying the disparate, ancillary system based on the message;
8 accessing content conversion rules based on the identity of the disparate, ancillary
9 system;
10 converting content from the message to enterprise information using the content
11 conversion rules;
12 retrieving enterprise relationship rules based on the enterprise information;
13 checking the enterprise information for a relationship with enterprise data based
14 on the relationship rules; and
15 scheduling an enterprise event based on a relationship between the enterprise
16 information converted from the message and the enterprise data stored on the enterprise
17 database.
- 1 2. The method recited above in claim 1 further comprising:
2 storing the enterprise information in the enterprise database.
- 1 3. The method recited above in claim 1, wherein the enterprise is a health care
2 facility.

1 4. The method recited above in claim 1 further comprising:
2 receiving an enterprise request for access to data in the enterprise database;
3 identifying the portion of enterprise data from information from the enterprise
4 request;
5 identifying the requestor from the enterprise request;
6 retrieving enterprise relationship rules based on the identity of the requestor;
7 identifying at least one user with a privilege to the identified portion of enterprise
8 data; and
9 granting the requestor access to the identified portion of enterprise data based on
10 the requester being identified as a user with the privilege to the identified portion of
11 enterprise data.

1 5. The method recited above in claim 4, prior to granting the requestor access to the
2 identified portion of enterprise data the method further comprising:
3 comparing the identity of at least one user with a privilege to the identified
4 portion with the identity of the requestor; and
5 returning a warning response to the requestor based on the outcome of the
6 comparison.

1 6. The method recited above in claim 2 further comprising:
2 detecting an error in a portion of enterprise data maintained on the enterprise
3 database;
4 identifying a source disparate, ancillary system, wherein the source disparate,
5 ancillary system is a source for the portion of enterprise data;
6 locating the portion of enterprise data in the source disparate, ancillary system;
7 and
8 accessing the source disparate, ancillary system for the portion of enterprise data.

1 12. The method recited above in claim 9, wherein scheduling the enterprise event
2 further comprises:
3 establishing a scheduling time for performance of the enterprise service; and
4 notifying the enterprise department responsible for administering the
5 performance of enterprise services to the recipient of the scheduling time.

1 13. The method recited above in claim 10, wherein scheduling the enterprise
2 event further comprises:
3 establishing a scheduling time for performance of the enterprise service; and
4 notifying the service person responsible for performance the enterprise service
5 of the scheduling time.

1 14. The method recited above in claim 11, wherein scheduling the enterprise
2 event further comprises:
3 establishing a scheduling time for performance of the enterprise service; and
4 notifying the enterprise service person responsible for performance the
5 enterprise service and the enterprise department responsible for administering the
6 performance of enterprise services to the recipient of the scheduling time.

1 15. The method recited above in claim 14, wherein notifying further comprises:
2 updating an enterprise web page with the scheduling time for performance of
3 the enterprise service.

1 16. The method recited above in claim 15, wherein notifying further comprises:
2 accessing notification information for enterprise service person from the
3 enterprise data;
4 selecting a transmission medium based on notification criteria in the
5 notification information; and
6 transmitting a message using the transmission medium based on the
7 notification information.

1 22. The method recited above in claim 21, wherein scheduling the enterprise
 2 event further comprises:
 3 retrieving enterprise relationship rules based on the identity of the enterprise
 4 user;
 5 identifying at least one user with a privilege to the enterprise function; and
 6 granting the enterprise user access to the enterprise function based on the
 7 enterprise user being identified as a user with the privilege to the enterprise function.

1 23. The method recited above in claim 22 wherein scheduling the enterprise event
 2 further comprises:
 3 updating an enterprise web page with at least a portion of the enterprise
 4 information a tool to perform the enterprise function.

1 24. The method recited above in claim 23 wherein the at least a portion of the
 2 enterprise information is a document and the tool to perform the enterprise function is
 3 an electronic signature tool.

1 25. The method recited above in claim 24 wherein the tool to perform the
 2 enterprise function further includes a document editing feature.

1 26. The method recited above in claim 25 wherein the editing feature of the tool
 2 to perform the enterprise function requires a separate privilege.

1 27. The method recited above in claim 22 wherein the enterprise user is one of a
 2 physician, an intern and a resident and the enterprise is a health care facility.

1 28. The method recited above in claim 24 wherein scheduling the enterprise event
 2 further comprises:
 3 receiving an acknowledgment from the enterprise user that document has been
 4 electronically signed by the enterprise user.

1 29. The method recited above in claim 25 wherein scheduling the enterprise event
2 further comprises:

3 receiving an acknowledgment from the enterprise user that document has been
4 electronically edited and electronically signed by the enterprise user.

1 30. The method recited above in claim 24 wherein scheduling the enterprise event
2 further comprises:

3 faxing a copy of the signed document to a destination based on the enterprise
4 data.

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1 33. The system recited above in claim 31, wherein the enterprise is a health care
2 facility.

1 34. The system recited above in claim 31 further comprising:
2 means for receiving an enterprise request for access to data in the enterprise
3 database;
4 means for identifying the portion of enterprise data from information from the
5 enterprise request;
6 means for identifying the requestor from the enterprise request;
7 means for retrieving enterprise relationship rules based on the identity of the
8 requestor;
9 means for identifying at least one user with a privilege to the identified portion of
10 enterprise data; and
11 means for granting the requestor access to the identified portion of enterprise data
12 based on the requester being identified as a user with the privilege to the identified
13 portion of enterprise data.

1 35. The system recited above in claim 34 further comprising:
2 means for comparing the identity of at least one user with a privilege to the
3 identified portion with the identity of the requestor; and
4 means for returning a warning response to the requestor based on the outcome of
5 the comparison.

1 36. The system recited above in claim 32 further comprising:
2 means for detecting an error in a portion of enterprise data maintained on the
3 enterprise database;
4 means for identifying a source disparate, ancillary system, wherein the source
5 disparate, ancillary system is a source for the portion of enterprise data;
6 means for locating the portion of enterprise data in the source disparate, ancillary
7 system; and
8 means for accessing the source disparate, ancillary system for the portion of
9 enterprise data.

1 37. The system recited above in claim 36 further comprising:
2 means for overwriting the portion of enterprise data maintained on the enterprise
3 database with the portion of enterprise data from the source disparate, ancillary system.

1 38. The system recited above in claim 31, wherein the enterprise event is an
2 enterprise service, the means for scheduling the enterprise event further comprises:
3 means for identifying a recipient for the enterprise service from the enterprise
4 information.

1 39. The system recited above in claim 38, wherein the means for scheduling the
2 enterprise event further comprises:
3 means for identifying an enterprise department responsible for administering
4 the performance of enterprise services to the recipient based on the identity of the
5 recipient for the enterprise service and the enterprise data.

1 40. The system recited above in claim 38, wherein the means for scheduling the
2 enterprise event further comprises:
3 means for identifying an enterprise service person responsible for
4 performance the enterprise service based on the identity of the recipient the enterprise
5 service and the enterprise data.

1 41. The system recited above in claim 38, wherein the means for scheduling the
2 enterprise event further comprises:
3 means for identifying an enterprise service person responsible for
4 performance the enterprise service based on the identity of the recipient the enterprise
5 service and the enterprise data; and
6 means for identifying an enterprise department responsible for administering
7 the performance of enterprise services to the recipient based on the identity of the
8 recipient the enterprise service and the enterprise data.

1 42. The system recited above in claim 39, wherein the means for scheduling the
2 enterprise event further comprises:

3 means for establishing a scheduling time for performance of the enterprise
4 service; and

5 means for notifying the enterprise department responsible for administering
6 the performance of enterprise services to the recipient of the scheduling time.

1 43. The system recited above in claim 40, wherein the means for scheduling the
2 enterprise event further comprises:

3 means for establishing a scheduling time for performance of the enterprise
4 service; and

5 means for notifying the service person responsible for performance the
6 enterprise service of the scheduling time.

1 44. The system recited above in claim 41, wherein the means for scheduling the
2 enterprise event further comprises:

3 means for establishing a scheduling time for performance of the enterprise
4 service; and

5 means for notifying the enterprise service person responsible for performance
6 the enterprise service and the enterprise department responsible for administering the
7 performance of enterprise services to the recipient of the scheduling time.

1 45. The system recited above in claim 44, wherein the means for notifying further
2 comprises:

3 means for updating an enterprise web page with the scheduling time for
4 performance of the enterprise service.

1 46. The system recited above in claim 45, wherein the means for notifying further
 2 comprises:
 3 means for accessing notification information for enterprise service person
 4 from the enterprise data;
 5 means for selecting a transmission medium based on notification criteria in
 6 the notification information; and
 7 means for transmitting a message using the transmission medium based on the
 8 notification information.

1 47. The system recited above in claim 46, wherein the transmission medium is a
 2 telephone, the notification information includes a telephone number, and the message
 3 is an oral notification.

1 48. The system recited above in claim 46, wherein the transmission medium is a
 2 pager, the notification information includes a pager telephone number, and the
 3 message is a text notification.

1 49. The system recited above in claim 45, wherein the means for scheduling the
 2 enterprise event further comprises:
 3 means for receiving an acknowledgment from the enterprise service person
 4 that the scheduling time for performance of the enterprise service has been received
 5 by the enterprise service person.

1 50. The system recited above in claim 49, wherein the means for scheduling the
 2 enterprise event further comprises:
 3 means for notifying the enterprise department responsible for administering
 4 the performance of enterprise services to the recipient that the enterprise service
 5 person responsible for administering acknowledges the scheduling time for
 6 performance of the enterprise service.

1 51. The system recited above in claim 31, wherein the enterprise event is an
 2 enterprise function, the means for scheduling the enterprise event further comprises:
 3 means for identifying an enterprise user responsible for executing the
 4 enterprise function from the enterprise information.

1 52. The system recited above in claim 41, wherein the means for scheduling the
 2 enterprise event further comprises:
 3 means for retrieving enterprise relationship rules based on the identity of the
 4 enterprise user;
 5 means for identifying at least one user with a privilege to the enterprise
 6 function; and
 7 means for granting the enterprise user access to the enterprise function based
 8 on the enterprise user being identified as a user with the privilege to the enterprise
 9 function.

1 53. The system recited above in claim 52 wherein the means for scheduling the
 2 enterprise event further comprises:
 3 means for updating an enterprise web page with at least a portion of the
 4 enterprise information a tool to perform the enterprise function.

1 54. The system recited above in claim 53 wherein the at least a portion of the
 2 enterprise information is a document and the tool to perform the enterprise function is
 3 an electronic signature tool.

1 55. The system recited above in claim 54 wherein the tool to perform the
 2 enterprise function further includes a document editing feature.

1 56. The system recited above in claim 55 wherein the editing feature of the tool to
 2 perform the enterprise function requires a separate privilege.

1 57. The system recited above in claim 52 wherein the enterprise user is one of a
 2 physician, an intern and a resident and the enterprise is a health care facility.

1 58. The system recited above in claim 54 wherein the means for scheduling the
 2 enterprise event further comprises:

3 means for receiving an acknowledgment from the enterprise user that
 4 document has been electronically signed by the enterprise user.

1 59. The system recited above in claim 55 wherein the means for scheduling the
 2 enterprise event further comprises:

3 means for receiving an acknowledgment from the enterprise user that
 4 document has been electronically edited and electronically signed by the enterprise
 5 user.

1 60. The system recited above in claim 54 wherein the means for scheduling the
 2 enterprise event further comprises:

3 means for faxing a copy of the signed document to a destination based on the
 4 enterprise data.

61. A computer readable storage medium storing program instructions for execution on a data processing system which when executed cause the data processing system to perform a method for accomplishing an enterprise event based on a unified collection of information realized from a plurality of disparate, ancillary systems, the method comprising:
- catching a message, wherein the message was generated by a disparate, ancillary system using a set of content rules and the message conforms to a message standard;
 - opening the message;
 - identifying the disparate, ancillary system based on the message;
 - accessing content conversion rules based on the identity of the disparate, ancillary system;
 - converting content from the message to enterprise information using the content conversion rules;
 - retrieving enterprise relationship rules based on the enterprise information;
 - checking the enterprise information for a relationship with enterprise data based on the relationship rules; and
 - scheduling an enterprise event based on a relationship between the enterprise information converted from the message and the enterprise data stored on the enterprise database.
62. The system recited above in claim 61 further comprising:
- storing the enterprise information in the enterprise database.
63. The system recited above in claim 61, wherein the enterprise is a health care facility.

1 64. The system recited above in claim 61 further comprising:
2 receiving an enterprise request for access to data in the enterprise database;
3 identifying the portion of enterprise data from information from the enterprise
4 request;
5 identifying the requestor from the enterprise request;
6 retrieving enterprise relationship rules based on the identity of the requestor;
7 identifying at least one user with a privilege to the identified portion of enterprise
8 data; and
9 granting the requestor access to the identified portion of enterprise data based on
10 the requester being identified as a user with the privilege to the identified portion of
11 enterprise data.

1 65. The system recited above in claim 64 further comprising:
2 comparing the identity of at least one user with a privilege to the identified
3 portion with the identity of the requestor; and
4 returning a warning response to the requestor based on the outcome of the
5 comparison.

1 66. The system recited above in claim 62 further comprising:
2 detecting an error in a portion of enterprise data maintained on the enterprise
3 database;
4 identifying a source disparate, ancillary system, wherein the source disparate,
5 ancillary system is a source for the portion of enterprise data;
6 locating the portion of enterprise data in the source disparate, ancillary system;
7 and
8 accessing the source disparate, ancillary system for the portion of enterprise data.

1 67. The system recited above in claim 66 further comprising:
2 overwriting the portion of enterprise data maintained on the enterprise database
3 with the portion of enterprise data from the source disparate, ancillary system.

1 68. The system recited above in claim 61, wherein the enterprise event is an
2 enterprise service, scheduling the enterprise event further comprises:
3 identifying a recipient for the enterprise service from the enterprise
4 information.

1 69. The system recited above in claim 68, wherein scheduling the enterprise event
2 further comprises:
3 identifying an enterprise department responsible for administering the
4 performance of enterprise services to the recipient based on the identity of the
5 recipient for the enterprise service and the enterprise data.

1 70. The system recited above in claim 68, wherein scheduling the enterprise event
2 further comprises:
3 identifying an enterprise service person responsible for performance the
4 enterprise service based on the identity of the recipient the enterprise service and the
5 enterprise data.

1 71. The system recited above in claim 68, wherein for scheduling the enterprise
2 event further comprises:
3 identifying an enterprise service person responsible for performance the
4 enterprise service based on the identity of the recipient the enterprise service and the
5 enterprise data; and
6 identifying an enterprise department responsible for administering the
7 performance of enterprise services to the recipient based on the identity of the
8 recipient the enterprise service and the enterprise data.

1 72. The system recited above in claim 69, wherein scheduling the enterprise event
2 further comprises:
3 establishing a scheduling time for performance of the enterprise service; and
4 notifying the enterprise department responsible for administering the
5 performance of enterprise services to the recipient of the scheduling time.

1 73. The system recited above in claim 70, wherein scheduling the enterprise event
2 further comprises:
3 establishing a scheduling time for performance of the enterprise service; and
4 notifying the service person responsible for performance the enterprise service
5 of the scheduling time.

1 74. The system recited above in claim 71, wherein scheduling the enterprise event
2 further comprises:
3 establishing a scheduling time for performance of the enterprise service; and
4 notifying the enterprise service person responsible for performance the
5 enterprise service and the enterprise department responsible for administering the
6 performance of enterprise services to the recipient of the scheduling time.

1 75. The system recited above in claim 74, wherein notifying further comprises:
2 updating an enterprise web page with the scheduling time for performance of
3 the enterprise service.

1 76. The system recited above in claim 75, wherein notifying further comprises:
2 accessing notification information for enterprise service person from the
3 enterprise data;
4 selecting a transmission medium based on notification criteria in the
5 notification information; and
6 transmitting a message using the transmission medium based on the
7 notification information.

1 77. The system recited above in claim 76, wherein the transmission medium is a
2 telephone, the notification information includes a telephone number, and the message
3 is an oral notification.

1 78. The system recited above in claim 76, wherein the transmission medium is a
2 pager, the notification information includes a pager telephone number, and the
3 message is a text notification.

1 79. The system recited above in claim 75, wherein scheduling the enterprise event
2 further comprises:
3 receiving an acknowledgment from the enterprise service person that the
4 scheduling time for performance of the enterprise service has been received by the
5 enterprise service person.

1 80. The system recited above in claim 79, wherein scheduling the enterprise event
2 further comprises:
3 notifying the enterprise department responsible for administering the
4 performance of enterprise services to the recipient that the enterprise service person
5 responsible for administering acknowledges the scheduling time for performance of
6 the enterprise service.

1 81. The system recited above in claim 61, wherein the enterprise event is an
2 enterprise function, scheduling the enterprise event further comprises:
3 identifying an enterprise user responsible for executing the enterprise function
4 from the enterprise information.

1 82. The system recited above in claim 81, wherein scheduling the enterprise event
2 further comprises:
3 retrieving enterprise relationship rules based on the identity of the enterprise
4 user;
5 identifying at least one user with a privilege to the enterprise function; and
6 granting the enterprise user access to the enterprise function based on the
7 enterprise user being identified as a user with the privilege to the enterprise function.

1 83. The system recited above in claim 82 wherein scheduling the enterprise event
2 further comprises:
3 updating an enterprise web page with at least a portion of the enterprise
4 information a tool to perform the enterprise function.

1 84. The system recited above in claim 83 wherein the at least a portion of the
2 enterprise information is a document and the tool to perform the enterprise function is
3 an electronic signature tool.

1 85. The system recited above in claim 84 wherein the tool to perform the
2 enterprise function further includes a document editing feature.

1 86. The system recited above in claim 85 wherein the editing feature of the tool to
2 perform the enterprise function requires a separate privilege.

1 87. The system recited above in claim 82 wherein the enterprise user is one of a
2 physician, an intern and a resident and the enterprise is a health care facility.

1 88. The system recited above in claim 84 wherein scheduling the enterprise event
2 further comprises:
3 receiving an acknowledgment from the enterprise user that document has been
4 electronically signed by the enterprise user.

1 89. The system recited above in claim 85 wherein scheduling the enterprise event
2 further comprises:
3 receiving an acknowledgment from the enterprise user that document has been
4 electronically edited and electronically signed by the enterprise user.

1 90. The system recited above in claim 84 wherein scheduling the enterprise event
2 further comprises:
3 faxing a copy of the signed document to a destination based on the enterprise
4 data.

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1 91. A health care information service layer comprising:
2 a message conversion rules memory for storing vendor specific rules for
3 converting vendor specific message format to health care level format;
4 an automated interface gateway (AIG) catcher, said AIG catcher comprising a
5 logical port for receiving vendor specific messages, a logical communications port for
6 communicating, a logical memory connection for operationally connecting to the
7 message conversion rules memory and executable logic for opening a vendor specific
8 message generated by a vendor specific application running on a remote system,
9 extracting information contained in a vendor specific message, identifying a remote
10 system based on information in a vendor specific message, communicating with said
11 message conversion rules memory via said logical memory connection and for
12 retrieving vendor specific rules based on an identity of a remote system, converting
13 information contained in a vendor specific message from vendor specific message
14 format using vendor specific rules, and communicating converted health care level
15 information via said logical communications port;
16 an health care level memory for storing health care level relationship rules and
17 for storing health care level information;
18 an health care level server, said health care level server comprising a logical
19 port for receiving health care system level messages, a logical memory connection for
20 operationally connecting to the health care level memory and executable logic for
21 opening a health care level message, extracting health care level information
22 contained in a health care level message, communicating with said health care level
23 memory via said logical memory connection and for retrieving health care level
24 relationship rules, checking health care level information for a relationship with other
25 health care level data based on the health care level relationship rules, scheduling
26 health care level event based on a relationship between health care level information
27 from a health care level message and health care level information from said health
28 care level memory and communicating health care level messages via said logical
29 communications port; and

1 92. The health care information service layer recited above in claim 91 wherein
2 said health care level memory further comprises:

3 a health care level privilege database containing privilege rules for accessing
4 health care level information.

1 93. The health care information service layer recited above in claim 91 wherein
2 said health care level memory further comprises:

3 a vendor database access database containing rules for accessing a remote
4 system's vendor database.

1 94. The health care information service layer recited above in claim 91 wherein
2 said health care level memory further comprises:

3 a health care level function containing an electronic signature tool.

1 95. The health care information service layer recited above in claim 91 wherein
2 said health care level memory further comprises:

3 a health care level function containing an automatic faxing tool.

1 96. The health care information service layer recited above in claim 91 wherein
2 said health care level memory further comprises:

3 a health care level function containing an notification tool for notifying health
4 care level users of the occurrence of a health care level event.